

Application Number: 10/510,457
Amendment Dated: March 1, 2010
Office Action Dated November 30, 2009

LISTING OF THE CLAIMS

1. (currently amended) A non-woven fiber assembly comprising one or more fibers wherein each fiber contains:

a hydrophilic component; and
an elastomeric component, and

wherein the non-woven fiber assembly further comprises an adhesive component, and wherein the assembly is capable of adhering to a dry substrate and is not capable of adhering to a wet substrate.

2. (cancelled)

3. (original) The non-woven fiber assembly of claim 1, wherein the assembly forms a component of a medical dressing.

4. (previously presented) The non-woven fiber assembly of claim 1, wherein the adhesive component is selected from homo- and co-polymers of acrylates, silicones, polyvinylpyrrolidones, and mixtures thereof.

5. (previously presented) The non-woven fiber assembly of claim 1, wherein the elastomeric component is selected from polyurethanes, polyesters, polyanhydrides, polyamides, polyimides, and mixtures and co-polymers thereof.

6. (previously presented) The non-woven fiber assembly of claim 1, wherein the hydrophilic component is selected from linear poly(ethylenimine), grafted cellulosics, poly(ethylene oxide), polyvinylpyrrolidone, polypropylene-oxides, polyurethanes, poly(hydroxyethyl methacrylate), and mixtures and co-polymers thereof.

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7. (currently amended) A non-woven fiber assembly comprising one or more fibers wherein each fiber contains:

a hydrophilic component; and
an elastomeric component, and

wherein the non-woven fiber assembly further comprises an adhesive component, and The non-woven fiber assembly of claim 1, wherein the composition of the one or more fibers at a first surface of the assembly is different from the composition of the one or more fibers at a second surface of the assembly.

8. (original) The non-woven fiber assembly of claim 1, wherein the at least one fiber has a diameter of between about 3 nanometers and about 3000 nanometers.

9. (currently amended) A method of making a non-woven fiber assembly, the method comprising the steps of:

providing at least one fiber-forming material; and

forming at least one fiber from the at least one fiber-forming material, and
wherein the at least one fiber forming material comprises a hydrophilic component, an elastomeric component, and optionally an adhesive component, and wherein each fiber contains a hydrophilic component and an elastomeric component, and optionally contains an adhesive component, and wherein the one or more fiber-forming materials is provided in a solvent, and wherein the solvent is selected from alcohols, ethyl acetate, acetone, and tetrahydrofuran.

10. (cancelled)

11. (previously presented) The method of claim 9, wherein the relative amounts of the adhesive component, the elastomeric component, and the hydrophilic component varies over time, thereby producing a fiber assembly in which the composition

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of the one or more fibers at a first surface of the dressing differs from the composition of the one or more fibers at a second surface of the dressing.

12. (previously presented) A method of treating a patient comprising:
applying a non-woven fiber assembly of claim 1 to a predetermined area of the patient.
13. (cancelled)
14. (cancelled)
15. (cancelled)
16. (previously presented) The non-woven assembly of claim 1, wherein the adhesive component is located on, or in proximity to, the one or more fibers.
17. (previously presented) A non-woven fiber assembly comprising one or more fibers wherein each fiber contains:
a hydrophilic component;
an elastomeric component; and
an adhesive component.
18. (previously presented) The non-woven fiber assembly of claim 17, wherein the assembly is capable of adhering to a dry substrate and is not capable of adhering to a wet substrate.
19. (previously presented) The non-woven fiber assembly of claim 17, wherein the assembly forms a component of a medical dressing.

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20. (previously presented) The non-woven fiber assembly of claim 17, wherein the adhesive component is selected from homo- and co-polymers of acrylates, silicones, polyvinylpyrrolidones, and mixtures thereof.

21. (previously presented) The non-woven fiber assembly of claim 17, wherein the elastomeric component is selected from polyurethanes, polyesters, polyanhydrides, polyamides, polyimides, and mixtures and co-polymers thereof.

22. (previously presented) The non-woven fiber assembly of claim 17, wherein the hydrophilic component is selected from linear poly(ethylenimine), grafted cellulosics, poly(ethylene oxide), polyvinylpyrrolidone, polypropylene-oxides, polyurethanes, poly(hydroxyethyl methacrylate), and mixtures and co-polymers thereof.

23. (previously presented) The non-woven fiber assembly of claim 17, wherein the composition of the one or more fibers at a first surface of the assembly is different from the composition of the one or more fibers at a second surface of the assembly.

24. (previously presented) The non-woven fiber assembly of claim 17, wherein the at least one fiber has a diameter of between about 3 nanometers and about 3000 nanometers.

25. (new) The non-woven fiber assembly of claim 7, wherein the assembly is capable of adhering to a dry substrate and is not capable of adhering to a wet substrate

26. (new) The non-woven fiber assembly of claim 7, wherein the assembly forms a component of a medical dressing.

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27. (new) The non-woven fiber assembly of claim 7, wherein the adhesive component is selected from homo- and co-polymers of acrylates, silicones, polyvinylpyrrolidones, and mixtures thereof.

28. (new) The non-woven fiber assembly of claim 7, wherein the elastomeric component is selected from polyurethanes, polyesters, polyanhydrides, polyamides, polyimides, and mixtures and co-polymers thereof.

29. (new) The non-woven fiber assembly of claim 7, wherein the hydrophilic component is selected from linear poly(ethylenimine), grafted cellulosics, poly(ethylene oxide), polyvinylpyrrolidone, polypropylene-oxides, polyurethanes, poly(hydroxyethyl methacrylate), and mixtures and co-polymers thereof.

30. (new) The non-woven fiber assembly of claim 7, wherein the at least one fiber has a diameter of between about 3 nanometers and about 3000 nanometers.